

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LIU XIAOHU	01/30/2015
RUHI SARIKAYA	01/30/2015
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<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14622119
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<b>NAME OF SUBMITTER:</b>	KATHLEEN E. OTT
<b>SIGNATURE:</b>	/Kathleen E. Ott/
<b>DATE SIGNED:</b>	02/17/2015
<b>Total Attachments: 4</b>	
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source=2015-02-17-Assignment-Liu-14917-2533USU1#page1.tif	
source=2015-02-17-Assignment-Liu-14917-2533USU1#page2.tif	

**PATENT ASSIGNMENT**

I Ruhi Sarikaya ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "METHODS FOR UNDERSTANDING INCOMPLETE NATURAL LANGUAGE QUERY" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on 01/23/2015 and given Application No. 62/107,213 by the following Office U.S. Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

was filed on \_\_\_\_\_ and was given Application No. \_\_\_\_\_ by the following Office "\_\_\_\_\_";


Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office
14/622,119	02/13/2015	USPTO


For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

	<u>01/30/15</u>
Inventor's Signature	Date
<u>Ruhi Sarikaya</u>	<u>Ruhi Sarikaya</u>
Printed Name in English	Printed Name in Native Language (if other than English)

**PATENT ASSIGNMENT**

I Xiaohu Liu, Derek ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "METHODS FOR UNDERSTANDING INCOMPLETE NATURAL LANGUAGE QUERY" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on 01/23/2015 and given Application No. 62/107,213 by the following Office U.S. Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known:

was filed on \_\_\_\_\_ and was given Application No. \_\_\_\_\_ by the following Office "\_\_\_\_\_";

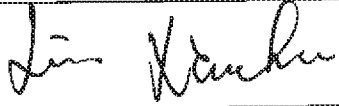
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ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

	<u>01/30/2015</u>
Inventor's Signature	Date
<u>Xiaochu Liu, Derek</u>	<u>刘小虎</u>
Printed Name in English	Printed Name in Native Language (if other than English)